

**First Responder Communications System**

ABSTRACT

5           A First Responder Communications System (FRCS), also referred to as an  
Automated Incident Control System, is provided that supports inter-agency and intra-  
agency communications among first responders including fire, police, border patrol,  
emergency medical service, safety, and/or other agencies. The FRCS also supports  
communication among multiple on-scene agencies and various command and control  
10 personnel and increases situational awareness by automatically providing position  
information as well as other sensor information. Components of the FRCS integrate  
multiple communications channels including High Frequency (HF), Very High  
Frequency (VHF), Ultra High Frequency (UHF)/microwave, cellular, satellite, and Public  
Switched Telephone Network (PSTN). The FRCS also provides position and time  
15 information via Global Positioning System (GPS) and/or other positioning systems, and  
data from deployed and/or personal sensors to provide enhanced communications,  
command and control capabilities to the first responders and incident command.